Cat. No. 14-1226
OWNER'S MANUAL

Please read before using this equipment.

SCP-85

AM•FM Stereo Cassette Player with
Auto Reverse and Digital Tuning

sports

OPTIMUS ®

FEATURES

Your Optimus SCP-85 Sports AM•FM Stereo Cassette Player with Auto Reverse and Digital Tuning delivers excellent sound from its built-in radio or your favorite cassette tapes through your speakers or stereo headphones. The tuner's PLL (Phase-Locked Loop) circuitry gives you precise tuning and drift-free reception.

Its features include:

All Weather Design — the sealed cassette compartment protects your tapes from wind, dust, and rain.

Auto-Reverse Cassette Deck — repeatedly plays both sides of a cassette tape for continuous tape play.

AM/FM Radio with 20-Station Memory — lets you store up to 20 of your favorite radio stations (10 FM and 10 AM) in memory so you can quickly tune to them.

Seek Tuning — searches forward or backward to the next strong station in the selected band so you can quickly find new stations.

E-BASS ON/OFF Switch — lets you increase bass sounds for maximum listening pleasure.

PHONES Jack — lets you connect headphones for private listening, or speakers to share the sound with others.

Removable Belt Clip — lets you attach the SCP-85 to your belt for hands-free carrying when you are on the go.

Note: You need a pair of headphones or amplified speakers with a $1/8$-inch plug (neither supplied) to operate your SCP-85. Your local RadioShack store sells a wide variety of headphones and speakers.

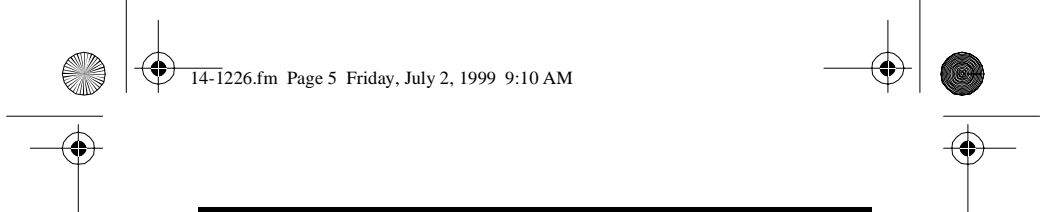# PREPARATION

INSTALLING BATTERIES

Your SCP-85 is powered by two AA batteries (not supplied). We recommend alkaline batteries (such as RadioShack Cat. No. 23-557). You can also use rechargeable nickel-cadmium batteries (Cat. No. 23-125). If you use rechargeable batteries, you also need a battery charger (Cat. No. 23-133).

Cautions:

- Do not mix old and new batteries, different types of batteries (standard, alkaline, or nickel-cadmium), or rechargeable batteries of different capacities.

- Use only fresh batteries of the required size and type.

Follow these steps to install batteries.

1. Push open the cassette compartment's cover, then push open the cassette compartment's door.

2. Press the battery compartment cover's tab in the direction of the arrow. The cover pops open.

3. Install the batteries as indicated by the polarity symbols (+ and –) marked inside cover.

4. Close the battery compartment cover and the cassette compartment's door and cover.

If the sound gets distorted or weak, be sure the SCP-85 is turned off and replace the batteries.

Notes:

• To remove the batteries, push the exposed battery in the indicated location.

5

• To keep the preset stations stored in memory, turn the radio off before removing batteries and replace the batteries within 45 seconds.

Cautions:

• Never leave dead or weak batteries in the SCP-85.

• If you do not plan to use the SCP-85 for a month or more, remove the batteries.

• Dispose of batteries properly; do not bury or burn them.

Important: Your SCP-85 is capable of using recharge-able nickel-cadmium batteries. At the end of the batteries' useful life, they must be recycled or disposed of properly. Contact your local, county, or state hazardous waste management authorities for information on recycling or disposal programs in your area. Some options that might be available are: municipal curbside collection, drop-off boxes at retailers such as your local RadioShack store, recycling collection centers, and mail-back programs.

USING HEADPHONES OR SPEAKERS

To listen to the SCP-85, you need a pair of headphones or amplified speakers with a $1/8$-inch plug.

Remove the rubber plug from the SCP-85's **PHONES** jack and insert the headphones' or speakers' $1/8$-inch plug into the **PHONES** jack. Replace the plug when you remove the headphones or speakers from the SCP-85.

Listening Safely

To protect your hearing, follow these guidelines when you use headphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.

- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.

- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.
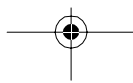
7

Traffic Safety

Do not wear headphones while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and can be illegal in some areas.

Even though some headphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

USING THE BELT CLIP

For hands-free carrying, slide the belt clip over your belt.

To remove the belt clip, turn the screw's lock holding the belt clip counterclockwise.

USING THE RADIO

LISTENING TO THE RADIO

Important: Make sure that you have connected head-phones or speakers to the SCP-85. See "Using Head-phones or Speakers" on Page 6.

1. Press **RADIO ON/OFF** to turn on the radio. The display shows the current radio station's frequency.

2. Adjust **VOLUME** to a comfortable listening level.

3. Press **BAND** until the display shows the desired band (AM or FM).

9

Note: For FM stereo reception, open the cassette compartment cover and door, and set **STEREO/MONO** to **STEREO**. **ST** appears on the display when an FM station is received in stereo.

4. Tune to the desired station.

   Manual Tuning: Repeatedly press **DIGITAL SCAN** Ÿ or ⁄ to tune up or down the selected band. To rapidly tune the band, hold down **DIGITAL SCAN** Ÿ or ⁄.

   Seek Tuning: Hold down **DIGITAL SCAN** Ÿ or ⁄ for about 2 seconds. The SCP-85 tunes up or down the selected band, then stops at the next higher or lower station with a strong signal.

   Press **DIGITAL SCAN** Ÿ or ⁄ again to stop scanning.

Notes:

- The SCP-85 has a built-in AM antenna, and the headphones' or speakers' cord serves as an FM antenna. For the best AM reception, rotate the SCP-85. For the best FM reception, fully uncoil the headphones' or speakers' cord.

- If FM stereo reception is poor or noisy, open the cassette compartment cover and door, and set **STEREO/MONO** to **MONO**. The sound is not in stereo, but the FM reception should improve.

5. Set **E-BASS ON/OFF** to **ON** for extra bass effect, or to **OFF** to leave the bass sound unchanged.

6. To turn off the radio, press **RADIO ON/OFF**.

11

STORING RADIO STATIONS IN MEMORY

You can store up to 20 radio stations (10 FM and 10 AM) in memory. Then you can quickly tune to a stored station by pressing a memory button (or **+5** and a memory button).

Follow these steps to store stations in memory.

1. Press **RADIO ON/OFF** to turn on the radio. The display shows the current radio station's frequency.

2. Press **BAND** until the display shows AM or FM.

3. Tune to the first station you want to store. The display shows the frequency.

4. Press **MEMORY**. **MEMO** flashes on the display for about 5 seconds.

5. To store stations into memory locations 1-5, while **MEMO** flashes on the display, press the memory location button (**1**-**5**) where you want to store the current frequency. The display shows **CH**, the memory channel number, and the frequency. Then press **MEMORY** again. **MEMO** disappears.
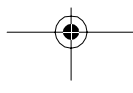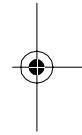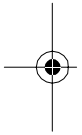
To store stations into memory locations 6-10, while **MEMO** flashes on the display, press **+5** then one of the memory location buttons (**1**-**5**). Then press **MEMORY** again. This increases the memory location number by 5. For example, if you press **+5**, then press memory location button **2** and **MEMORY**, the radio stores the selected frequency into memory location 7.

13

> **Note:** If you do not press a memory location button or **+5** within about 5 seconds, **MEMO** disappears from the display. Start again from Step 4.

6. Tune to the next station you want to store, then repeat Steps 4 and 5.

To replace a station you stored, simply store a new station in that memory location.
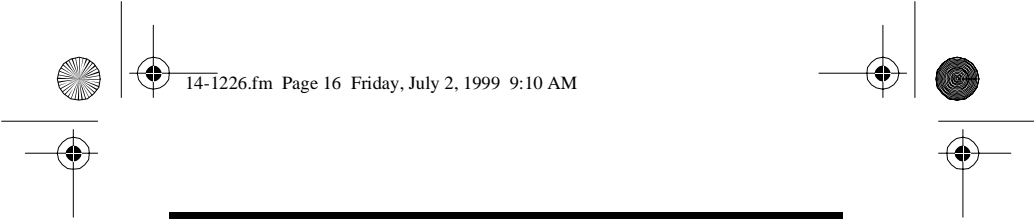
USING THE CASSETTE PLAYER

PLAYING A CASSETTE TAPE

Important: Make sure that you have connected head-phones or speakers to the SCP-85. See "Using Head-phones or Speakers" on Page 6.

1. Push open the cassette compartment's cover, then push open the cassette compartment's door.

2. Take up any slack in the cassette tape by turning its hub with your finger or a pencil. If you do not remove excess slack, the tape might become tangled in the play mechanism. Avoid touching the tape.
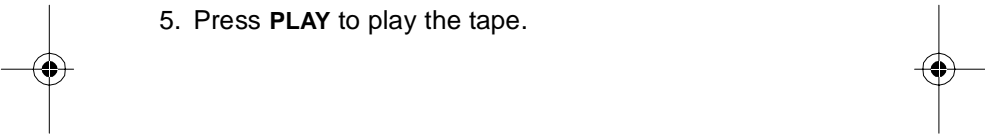
   Note: We recommend you do not use C-120 cassette tapes. They are very thin and can easily become tangled in the tape-handling parts.

15

3. Insert the cassette tape into the cassette compart-
   ment with the desired side facing you, the full reel to
   the right, and the open end facing up.

4. Close the cassette compartment's door and cover.

5. Press **PLAY** to play the tape.

Notes:

• After playing to the end of each side, the tape
  automatically changes direction to play the other
  side.

• To manually change the tape's direction to play the
  other side, switch **DIR** to the other position.

16

6. Adjust **VOLUME** to a comfortable listening level.

7. Set **E-BASS ON/OFF** to **ON** for extra bass effect, or to **OFF** to leave the bass sound unchanged.

8. Press **STOP** to stop the tape.

17

Using Fast Forward/Rewind

To fast-forward or rewind the cassette tape, press **<<** or **>>**. When you reach the desired section of tape, press **STOP** then **PLAY**.

Tape Direction	Press to Fast-Forward	Press to Rewind
	>>	**<<**
	<<	**>>**

TAPE TIPS AND TECHNIQUES

CLEANING THE TAPE-HANDLING PARTS

Dirt, dust, or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the SCP-85. Use the following cleaning procedure after every 20 hours of operation.

1. Open the cassette compartment cover and door.

2. Open the battery compartment cover.

3. Remove the batteries.

4. Press **PLAY** to expose the tape-handling parts.

5. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the play head, pinch roller, tape guides, and capstans.

6. When you finish cleaning, press **STOP** and replace the batteries. Close the battery compartment cover and the cassette compartment's door and cover.

Your local RadioShack store carries a full line of cassette deck cleaning supplies.
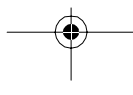
RESTORING TAPE TENSION AND SOUND QUALITY

After you play a cassette several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each side of the cassette's outer shell on a flat surface.

Caution: Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

CARE AND MAINTENANCE

Your Optimus SCP-85 Sports AM•FM Stereo Cassette Player with Auto Reverse and Digital Tuning is an example of superior design and craftsmanship. The following suggestions will help you care for the SCP-85 so you can enjoy it for years.

Keep the SCP-85 dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.

Use and store the SCP-85 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.

Keep the SCP-85 away from dust and dirt, which can cause premature wear of parts.

Handle the SCP-85 gently and carefully. Dropping it can damage circuit boards and cases and can cause the SCP-85 to work improperly.

Wipe the SCP-85 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it.

21

Modifying or tampering with the SCP-85's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your SCP-85 is not performing as it should, take it to your local RadioShack store for assistance.

THE FCC WANTS YOU TO KNOW

Your cassette player might cause TV or radio interference even when it is operating properly. To determine whether your cassette player is causing the interference, turn off your cassette player. If the interference goes away, your cassette player is causing it. Try to eliminate the interference by:

- Moving your cassette player away from the receiver

- Contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using your cassette player.

22

SPECIFICATIONS

RADIO

	FM	AM
Frequency Range	88-108 MHz	530-1710 kHz
IF Rejection	50 dB	46 dB
Image Rejection	20 dB	35 dB
Selectivity	10 dB	15 dB
Signal-to-Noise (S/N) Ratio	50 dB	24 dB
Stereo Separation	20 dB	
Usable Sensitivity	32 mV	2500 mV/m

CASSETTE PLAYER

Cassette Mechanism .... Auto-Reverse

Wow and Flutter .... 0.25% or less

Signal-to-Noise Ratio ....40 dB

Separation ....30 dB

Frequency Response (6 dB) .... 125 Hz–6 kHz

GENERAL

Power Requirements .... DC 3V (2 AA Batteries)
(Cat. No. 23-557)

Headphone Impedance .... 32 ohms

Dimensions (HWD) ....$4^1/_{16}$ ¥ $4^{13}/_{16}$ ¥ $1^3/_4$ Inches
(103 ¥ 122 ¥ 44.4 mm)

Weight .... 11.6 oz (328 g)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 76102

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Fort Worth, Texas 76102